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## SPORTS OF THE FARM

White Plymouth Rock Chicken Is  
One of Most Familiar.

Another Interesting and Valuable Di-  
version Is Development of Pooled  
Durham Breed of Cattle—The  
Dwarf Tomato Is Another.

(By PROF. JOHN WILLARD BOLTE)  
The term "sport" means many  
things to many people. We each  
think in our own language and see  
the same object in different colors  
from various sides. Sport from the  
standpoint of the man interested in  
heredity is an unprecedented and un-  
accountable change of character in  
the offspring of perfectly normal pa-  
rents. This change may be slight, or  
it may be absolutely revolutionary,  
but if it be a true sport it has never  
occurred before in the ancestry of  
this particular individual.

The new character may effect one  
organ or the whole structure of the  
individual. There is no way of trac-  
ing the causes of the change and no  
certainty that it will be transmitted  
to the descendants of the sport.

It is from these abrupt spontaneous  
appearances of strange characters  
that some of our most valuable va-  
rieties of plants and animals have  
come. Perhaps one of the most fa-  
miliar sports in animal world is the  
White Plymouth Rock chicken. This  
variety is a pure sport derived from  
the Barred variety and the pure white  
chicks occurred in two or three places  
in this country at about the same  
time. Fortunately they transmitted  
their white color to their offspring and  
thus was created a new breed, pure  
white in color, and true Plymouth  
Rocks in every other characteristic.

Another interesting and valuable  
sport is the Pooled Durham breed of  
cattle, a hornless breed descended  
from the true sports of the Shorthorns.  
The first true pooled Shorthorns were  
born of horned parents, but their off-  
spring were usually hornless.

In the vegetable kingdom, one of  
the latest sports is the Dwarf Tomato  
which we told you about in a recent  
article. It came spontaneously from  
tall stock, had full sized fruit in  
smaller numbers, and the stalk was  
stiff enough to support the fruit. It  
immediately became popular and bids  
fair to supplant its parent variety for  
field use, because it produces more  
and better fruit to the acre.

Sports without number have oc-  
curred among the flowers and most  
of us are familiar with numerous  
cases of unexpected new shapes and  
colorings.

Many of the finest varieties of ap-  
ples and other tree fruits are of spo-  
ntaneous origin, and we credit a num-  
ber of valuable grains and field crops  
to the same mysterious forces which  
we know not.

While giving sports due credit, we  
must acknowledge that cross breeding  
and careful selection are fully as im-  
portant, if not more so, and they are  
much more available to mankind. A  
great many mutations of character  
which are called sports are really  
changes due to crossing one charac-  
ter with another.

## INCREASE IN FARM PROFITS

Farmers Make Serious Mistake of  
Spreading Energies Over Too  
Large Area, Says Worst.

(By J. H. WORST, Dean of North Da-  
kota Agricultural College.)

It requires approximately seven dol-  
lars per acre to grow a crop. This  
includes interest on the investment,  
cost of seed, wear and tear on farm  
machinery, labor, etc. By adding one  
dollar's worth of labor to each acre,  
there is little question but that the  
average profits would be doubled. In  
other words, as much profit should be  
realized from the one additional dol-  
lar's worth of labor as is now realized  
from the seven dollars' worth of un-  
avoidable labor and investment. Con-  
sequently if farmers would devote  
one-third of their land to growing corn  
and alfalfa, neither of which interferes  
with the time and labor employed in  
farming wheat, and put one-third  
more labor, thus make available on  
only two-thirds as many acres of  
wheat, they would grow more wheat  
than where they spread their energies  
over one-third larger acreage. The  
corn and alfalfa fed to live stock  
would insure them a large additional  
income, and one that is not often ad-  
versely influenced by climatic condi-  
tions, while the fertility deposited up-  
on the farm resulting from feeding the  
corn and alfalfa to live stock  
would vastly improve the productiv-  
ness of the soil.

Handling Manure Once Only.  
It should be the rule never to han-  
dle manure more than once. When re-  
moved from the barn or feeding shed  
it should be loaded at once into the  
spreader and hauled to the field. If  
the farm is small and the amount pro-  
duced is only at the rate of one or two  
loads a week, the convenience and im-  
provement of taking it directly from  
the stable and spreading it at once on  
the field will certainly justify driv-  
ing the manure spreader slowly. Or-  
ange Judd Farmer.

Manure and Moisture.  
Manure from the barn lot adds hu-  
mus to the soil, and humus acts like  
a sponge, retaining the moisture and  
making more rainfall or holding it  
longer. Moral: Save and carefully  
spread all barnyard manure over the  
fields. Manure, properly utilized, puts  
dollars in the farmers' pockets.

## L. & N.

Time Card No. 136

Effective Sunday, Jan. 5, 1913.

TRAINS GOING SOUTH  
No. 98—C. & N. O. Lim. 11:56 p. m.  
No. 51—St. L. Express 5:35 p. m.  
No. 99—Dixie Limited, 10:41 p. m.  
No. 95—Dixie Flyer, 9:01 a. m.  
No. 55—Hopkinsville Ac. 7:08 a. m.  
No. 53—St. L. Fast Mail 5:33 a. m.

TRAINS GOING NORTH.

No. 92—C. & St. L. Lim., 5:25 a. m.  
No. 52—St. Louis Express, 9:52 a. m.  
No. 98—Dixie Limited, 7:03 a. m.  
No. 94—Dixie Flyer, 6:53 p. m.  
No. 56—Hopkinsville Ac. 8:55 p. m.  
No. 54—St. L. Fast Mail, 10 p. m.

Nos. 95 and 94 will make Nos. 94  
and 91's stops except 94 will not stop  
at Mannington and No. 95 will  
not stop at Mannington or Empire.

Nos. 5 and 54 connect at St. Louis for  
St. Paul.

No. 51 connects at Guthrie for Memphis  
and for Louisville, Cincinnati and the west.

Nos. 53 and 55 make direct connections at Guth-  
rie for Louisville, Cincinnati and all points north  
and east thereof. Nos. 53 and 55 also connect for  
Memphis and way points.

No. 92 runs through to Chicago and will not  
stop at points south of Evansville.

No. 99 carries through sleepers to Atlanta, Ma-  
con, Jacksonville, St. Augustine and Tampa. Fla.  
Also Pullman sleepers to New Orleans, Connects  
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## MARKETING HAY CROP

One of Leading Industries in  
Many Parts of Country.

Much Difference in Demands of In-  
dividual Markets—Certain Practices  
in Baling and Marketing  
Should Be Corrected.

(By H. B. MCCLURE.)  
As a separate industry, growing and  
marketing of hay in the United States  
is comparatively new.

Prior to 1870 marketing was a sim-  
ple, matter, and was carried on in a  
somewhat haphazard manner. Little  
hay was shipped more than 20 or 30  
miles. In many instances the pro-  
ducer sold his product directly to the  
consumer, and there was little need  
for standard grades or bales or for  
other trade rules.

The growing of hay for the market  
has now become one of the leading  
industries in many parts of the coun-  
try. It is estimated that about 22 per  
cent. of the 1912 hay crop, or over  
15,000,000 tons, was removed from the  
farms.

There is a considerable difference in  
the demands of the individual markets  
in the various sections of the country  
in regard to the size and weights of  
the bales and the kind and grade of hay  
which brings the best price. Certain  
practices in baling and marketing  
cause a loss to the producer, which  
could be avoided if a proper adher-  
ence to the requirements of the mar-  
ket to which the hay is shipped were  
observed.

How to dispose of low grade hay is  
a vital problem with every one who  
handles this class of hay, and every  
dealer has more or less of it; usually  
more low grade hay than any other  
kind. The shippers, receivers, and  
dealers can help much in solving this  
perplexing problem. The country  
buyer and shipper especially can help  
materially, and should use every fair  
means in his power to lessen the  
trouble caused by low grade hay. The  
first step in the right direction is for  
the producer to learn the different  
grades of hay. It is just as important  
for him as it is for the city buyer to  
know the grades.

If hay sells by grade in the country  
the man who has the poorest product  
will receive less than he does now. At  
present the man who has choice hay  
receives less than it is worth on the  
market, and part of the profit which  
the shipper makes on the good hay  
must go to make up for the loss on  
the poor hay.

With the present system of buying  
hay there is not enough difference in  
the price paid for the better grades in  
the country as compared with the  
price paid for the lower grades.  
Therefore, if the man who has No. 2  
hay receives within 50 or 75 cents of  
the price of his neighbor's choice hay  
he is satisfied and thinks that it is not  
necessary to take the precautions that  
his neighbor did in order to get a  
slight advance.

Standard grades of timothy, clover,  
prairie hay, straw, mixed hay, and  
alfalfa have been adopted in the most  
of the important markets, and it is of  
vital importance to the producer to  
know and meet the demands of the  
markets to which he ships.

## GREEN MANURING GOOD SOIL

Practice Cannot Be Recommended Ex-  
cept at Long Intervals to Furnish  
Needed Humus or Nitrogen.

Green manuring as a definite farm  
practice can be recommended only  
under certain conditions. It is profit-  
able in upbuilding poor soils and in  
improving the physical conditions of  
sandy, clayey, and adobe soils. In  
orchards green manures may, as a  
rule, be used advantageously, as they  
do not interfere with the fruit crops.

Green manuring cannot be recom-  
mended on good soils, except at long  
intervals, when there is reason to be-  
lieve there is need either of more  
humus or more nitrogen. Where red  
clover or alfalfa can be used in rota-  
tion the need of a special green ma-  
nure is seldom felt. The reason lies  
in the fact about one-third of the  
weight of the clover plant and nearly  
one-half of that of alfalfa is in the  
root, so that these plants virtually pro-  
duce a green manure crop under the  
ground in addition to the regular crop  
of hay. Sweet clover is another plant  
of this class and of wide adaptation  
as to soil and climate, but unfortu-  
nately the hay is not readily eaten  
by cattle, so that it is used in limited  
sections only.

It is Well to Know That—  
Alfalfa boards itself and pays for  
the privilege.  
Alfalfa adds humus to the soil.  
Alfalfa sod plows hard.  
Alfalfa sod produces good crops.  
Alfalfa yields are large.  
Alfalfa hay represents quality.  
Alfalfa is best seeded without a  
nurse crop.  
Alfalfa should be seeded with a  
drill.  
Alfalfa should not be pastured un-  
til well established.  
Alfalfa should not be pastured in  
the spring, when starting growth.

Feeding Affects Wool.  
Proper and intelligent feeding adds  
to the quality of every kind of live  
stock or product the feeder may have  
to put on the market. Even the wool  
that comes from the back of the sheep  
is good, bad or indifferent, accord-  
ing to the manner in which it has been  
fed.



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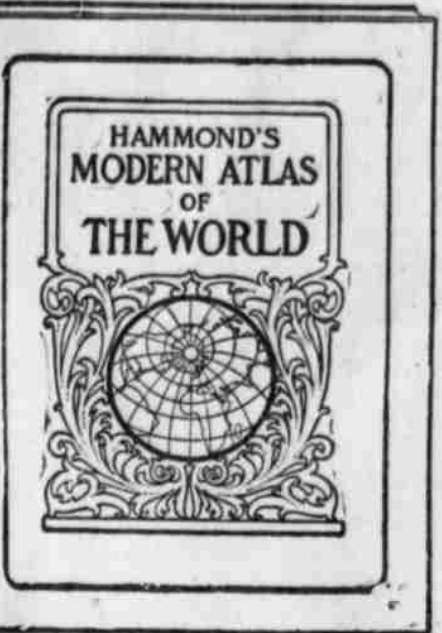
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